

CLAIMS

The following is a copy of Applicant's claims that identifies language being added with underlining ("___") and language being deleted with strikethrough ("—"), as is applicable:

1. (Currently Amended) A method of producing a three-dimensional object, comprising the steps of:

providing a norbornene based curable material including at least one initiator and at least one norbornene based build material, wherein the norbornene based curable material is a multi-part norbornene based curable material;

dispensing a layer of the at least one norbornene build material, wherein the norbornene based build material is dispensed from a first ink-jet printhead;

dispensing a layer of the initiator onto the layer of the at least one norbornene build material thereby forming a multi-part norbornene based curable material, wherein the initiator is dispensed from a second ink-jet printhead, wherein the at least one initiator and the at least one norbornene based build material are commingled to form the multi-part norbornene based curable material; and

~~dispensing the norbornene based curable material onto a build platform, wherein the at least one initiator and the at least one norbornene based build material are dispensed onto the build platform independently, wherein the initiator is dispensed from a first ink-jet printhead and the norbornene based build material is dispensed from a second ink-jet printhead, wherein the at least one initiator and the at least one norbornene based build material are commingled to form the multi-part norbornene based curable material; and~~

curing the norbornene based curable material to produce the three-dimensional object.

2-9. (Canceled)

10. (Previously Presented) The method of producing a three-dimensional object of claim 1, wherein the initiator is selected from the group consisting of: ring opening metathesis polymerization initiators, radical initiators, photo initiators, and combinations thereof.

11. (Previously Presented) The method of producing a three-dimensional object of claim 1, wherein the norbornene based build material is selected from the group consisting of:

functionalized norbornene compounds, functionalized hetero-norbornene compounds, dicyclopentadiene, and combinations thereof.

12-30. (Canceled)

31. (Newly Added) A method of producing a three-dimensional object, comprising the steps of:

providing a norbornene based curable material including at least one initiator and at least one norbornene based build material, wherein the norbornene based curable material is a multi-part norbornene based curable material;

dispensing a layer of an initiator, wherein the initiator is dispensed from a first ink-jet printhead;

dispensing a layer of the at least one norbornene build material onto the layer of the initiator thereby forming a multi-part norbornene based curable material, wherein the norbornene build material is dispensed from a second ink-jet printhead, wherein the at least one initiator and the at least one norbornene based build material are commingled to form the multi-part norbornene based curable material; and

curing the norbornene based curable material to produce the three-dimensional object.

32. (Newly Added) A method of producing a three-dimensional object, comprising the steps of:

providing a norbornene based curable material including at least one initiator and at least one norbornene based build material, wherein the norbornene based curable material is a multi-part norbornene based curable material;

dispensing a layer of the initiator and the at least one norbornene build material simultaneously, wherein the initiator is dispensed from a first ink-jet printhead, wherein the norbornene build material is dispensed from a second ink-jet printhead, wherein the at least one initiator and the at least one norbornene based build material are commingled to form the multi-part norbornene based curable material; and

curing the norbornene based curable material to produce the three-dimensional object.